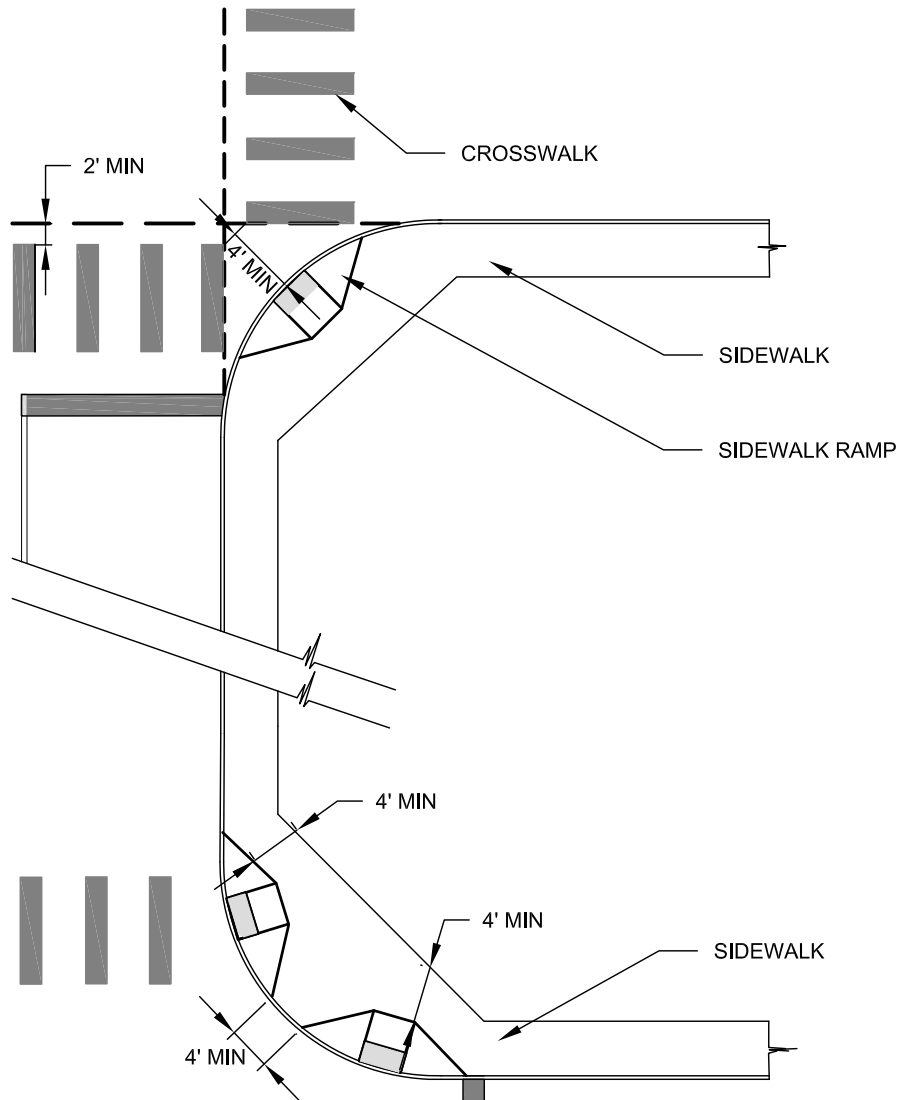


## **Section 99**

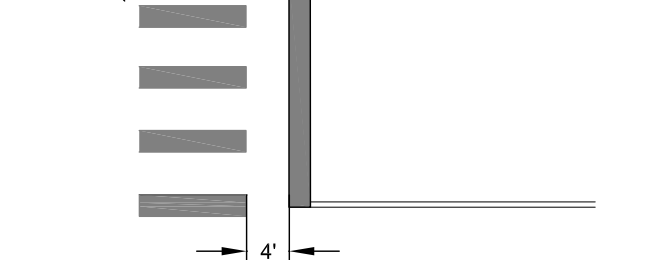
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### **Design Guidance**

**SINGLE CURB  
RAMP LAYOUT**  
NTS



**DUAL CURB (PREFERRED)  
RAMP LAYOUT**  
NTS



NOTES:

1. SEE STANDARD DETAILS F-40.12-01, F-40.14-01, F-40.15-01, AND F-40.16-01 FOR ADDITIONAL DETAILS ON RAMP CONSTRUCTION.
2. SEE STANDARD DETAILS 311, 311A & 311B FOR ADDITIONAL DETAILS ON CROSSWALK AND STOP BAR CONSTRUCTION.
3. RAMP MUST BE WITHIN CROSSWALK.

*Rob Crittenden*

APPROVED BY: ROB CRITTENDEN  
TRAFFIC OPERATIONS SAFETY AND ENGINEERING MANAGER

REVISION DATE: JULY 01, 2014

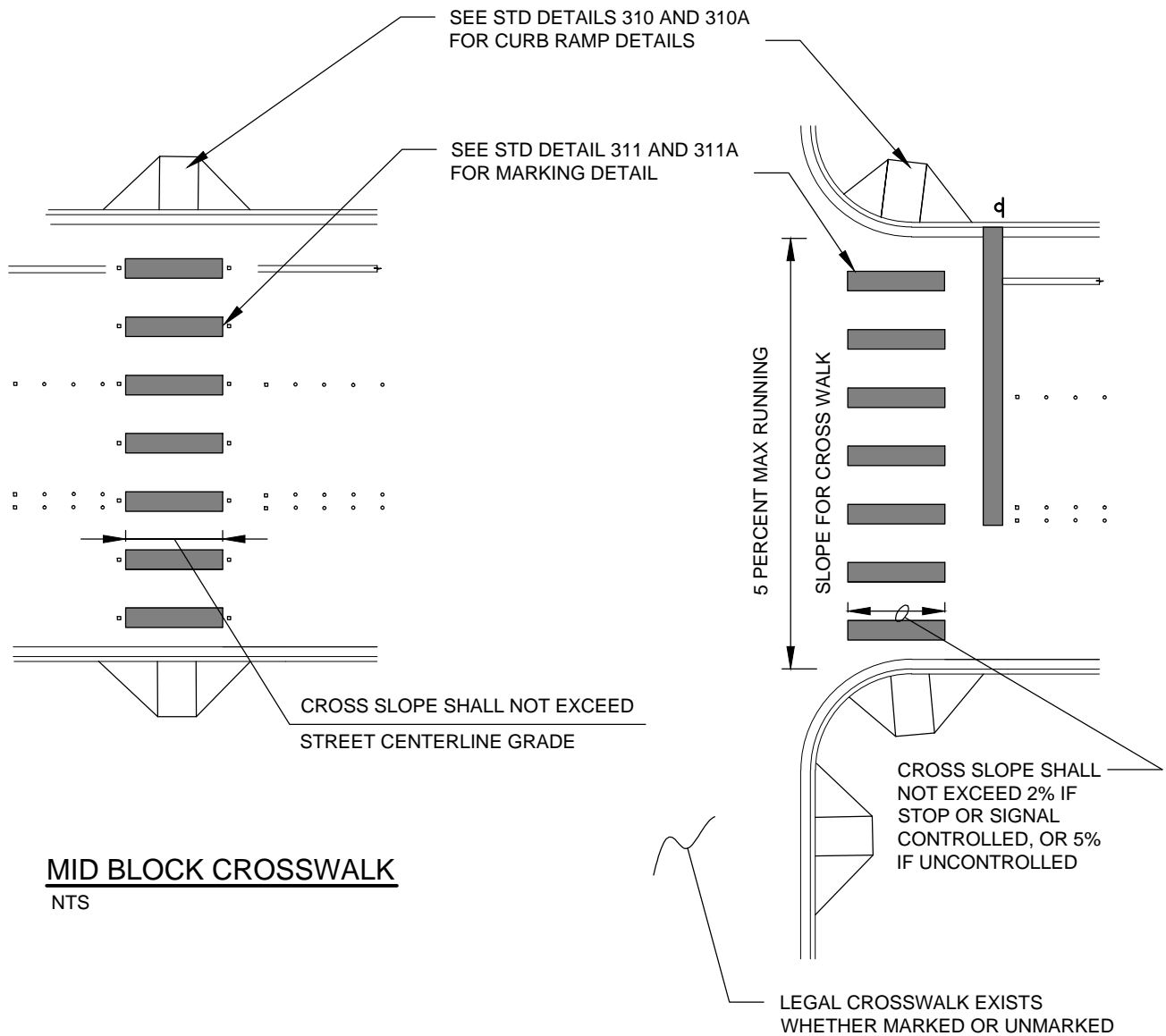


STANDARD DETAILS

**SIDEWALK RAMP LAYOUT**

FILE NAME: DG01.DWG

DETAIL NUMBER: **DG01**



NOTES:

1. STANDARDS APPLY TO BOTH MARKED AND UNMARKED CROSSWALKS.
2. INSTALLATION SHALL REFLECT "REVISED DRAFT GUIDELINES FOR ACCESSIBLE PUBLIC RIGHTS-OF-WAY" DATED NOVEMBER 2012, EXCEPT AS APPROVED BY THE TRAFFIC ENGINEER.
3. RAMPS SHALL BE INSTALLED FOR ALL LEGAL CROSSWALKS, WHETHER MARKED OR UNMARKED, EXCEPT AS APPROVED BY THE TRAFFIC ENGINEER.
4. RAMP CROSS SLOPE SHALL NOT EXCEED THE CENTERLINE GRADE OF THE CROSSWALK.
5. SIDEWALK GRADE SHALL NOT EXCEED THE GENERAL GRADE OF THE PARALLEL STREET.

*Rob Crittenden*

APPROVED BY: ROB CRITTENDEN  
TRAFFIC OPERATIONS SAFETY AND ENGINEERING MANAGER

REVISION DATE: JULY 01, 2015

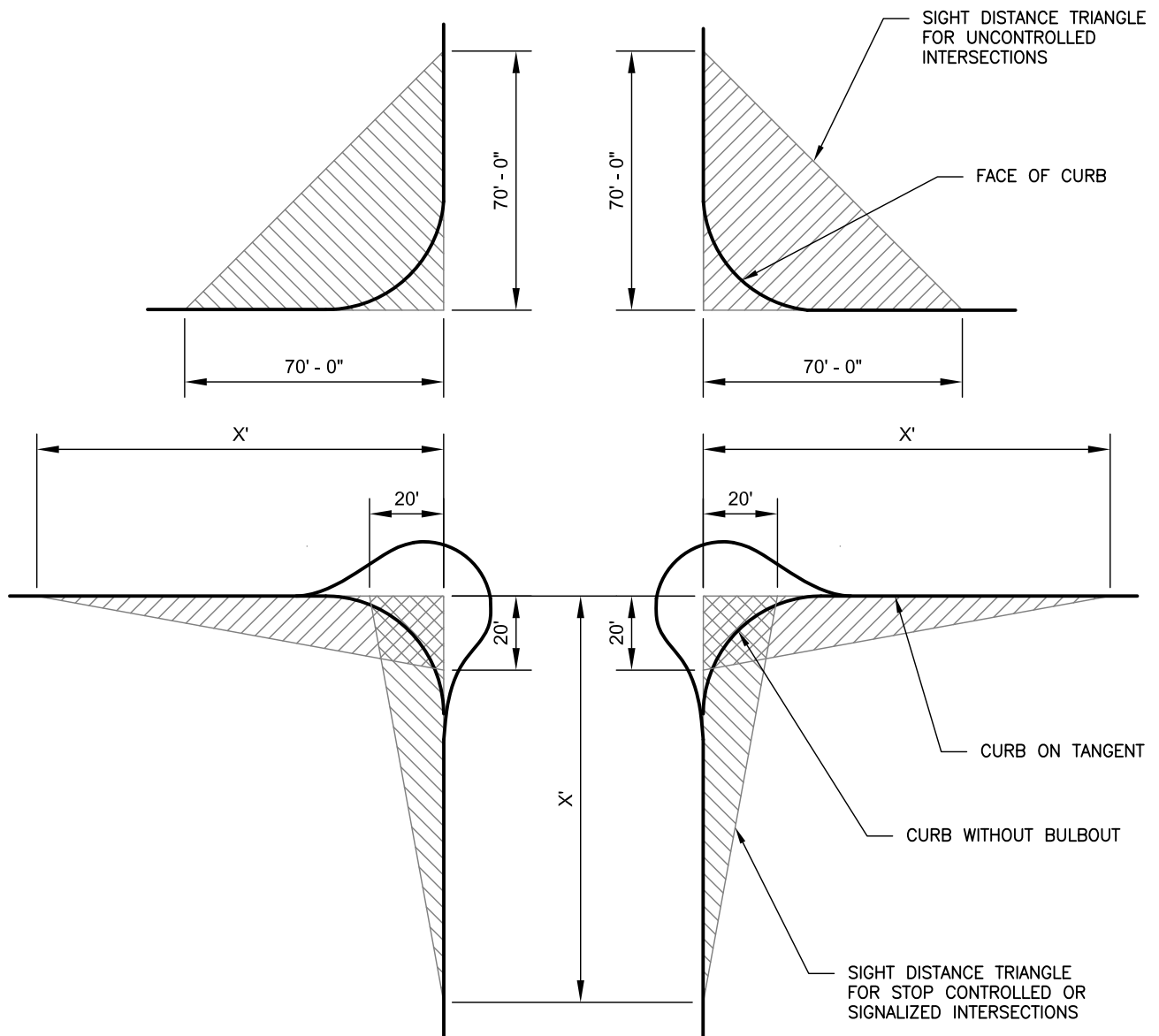


STANDARD DETAILS

**CROSSWALK ACCESSIBILITY  
DESIGN STANDARDS**

FILE NAME: DG02.DWG

DETAIL NUMBER: DG02



### PLAN VIEW

NTS

#### NOTES:

1. X IS a) 100 FEET ALONG ARTERIAL STREETS OR b) 65 FEET ALONG LOCAL ACCESS STREETS.
2. SHOW TRIANGLES FOR STREET AND NON SINGLE FAMILY RESIDENTIAL DRIVEWAY INTERSECTIONS.
3. SIGHT DISTANCE TRIANGLE LEGS ALIGN WITH CURB ON TANGENT.
4. SIGHT DISTANCE TRIANGLE IS APPLICABLE BETWEEN A HEIGHT OF EIGHT AND TWO FEET ABOVE GROUND. NO SIGHT OBSTRUCTIONS SHALL EXIST PER RZC 21.52.040

*Rob Crittenden*

APPROVED BY: ROB CRITTENDEN  
TRAFFIC OPERATIONS SAFETY AND ENGINEERING MANAGER

REVISION DATE: JULY 01, 2014



City of Redmond  
WASHINGTON

STANDARD DETAILS

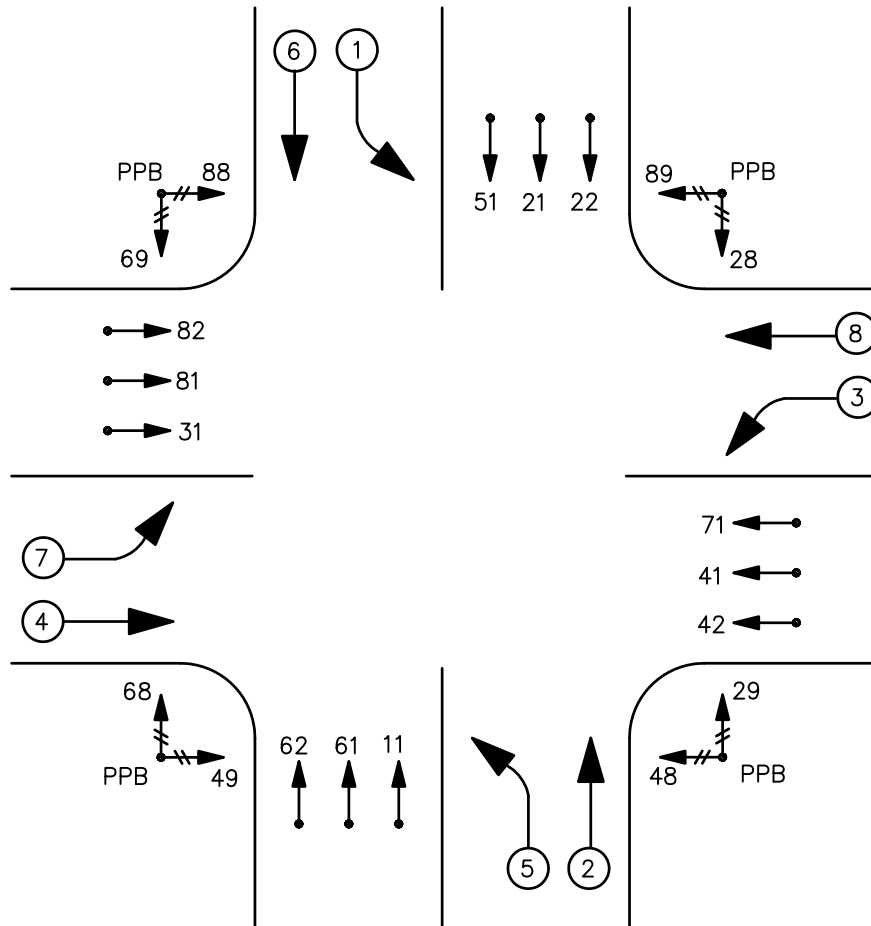
### **SIGHT DISTANCE TRIANGLE**

FILE NAME: DG03.DWG

DETAIL NUMBER: **DG03**

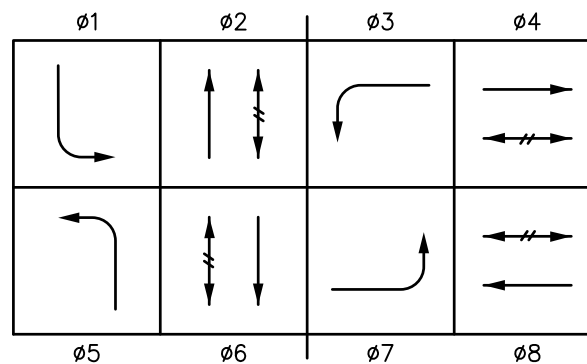
## INTERSECTION HEAD NUMBERS

NTS



## PHASING SEQUENCE DIAGRAM

NTS



NOTE:

PHASE 2 IS TYPICALLY NORTHBOUND. CONFIRM WITH TRAFFIC OPERATIONS DIVISION. EXCEPTIONS MAY OCCUR, SUCH AS FOR CONSISTENCY ALONG A CURVING ARTERIAL.

*Rob Crittenden*

APPROVED BY: ROB CRITTENDEN  
TRAFFIC OPERATIONS SAFETY AND ENGINEERING MANAGER

REVISION DATE: JULY 01, 2014



City of Redmond  
WASHINGTON

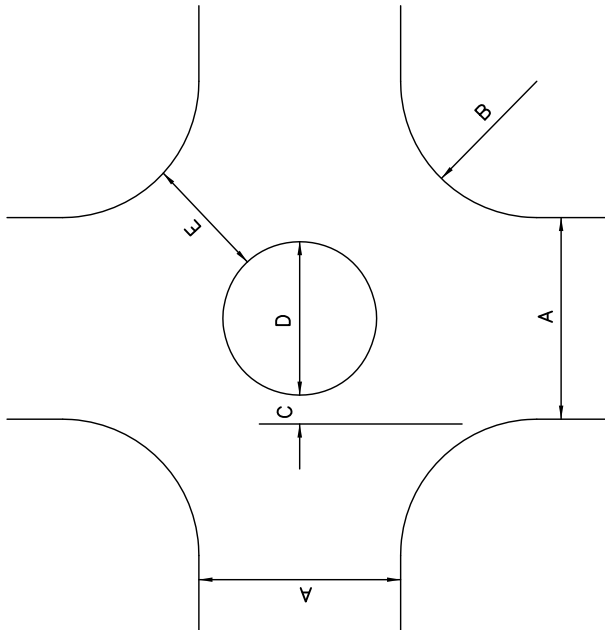
STANDARD DETAILS

**STANDARD INTERSECTION HEAD  
NUMBERS AND PHASING**

FILE NAME: DG04.DWG

DETAIL NUMBER: **DG04**

## GEOMETRY



## NOTES:

1. USE DIMENSION SCHEDULE AS A DESIGN GUIDE. FINAL DIMENSIONS TO BE DETERMINED BY THE ENGINEER.
2. FOR PLANTER ISLAND SPECIFICATIONS SEE TRAFFIC CIRCLE DETAIL SD478.

## OPTIMUM CRITERIA

OFFSET DISTANCE (C)	OPENING WIDTH (E)
5.5' MAX.	16' MIN.
5.0'	17' ±
4.5'	18' ±
4.0'	19' ±
3.5' OR LESS	20' ±

## DIMENSIONS

A STREET WIDTH	B CURB RETURN RADIUS	C OFFSET DISTANCE	D CIRCLE DIAMETER	E OPENING WIDTH
20'	<15' 15' 18' 20' 25'	RECONSTRUCT CURBS 5.5' 5.0' 4.5' 4.0'	9' 10' 11' 12'	16'+ 17'+ 18'- 19'+
24'	<12' 12' 15' 20' 25'	RECONSTRUCT CURBS 5.5' 5.0' 4.5' 3.5'	13' 14' 15' 17'	16' 17'- 18'+ 20'-
25'	<12' 12' 15' 18' 20' 25'	RECONSTRUCT CURBS 5.5' 5.0' 4.5' 4.5' 3.5'	14' 15' 16' 16' 18'	16'+ 17'- 18'- 18'+ 20'-
30'	10' 12' 15' 18' 20' 25'	5.5' 5.0' 5.0' 4.5' 4.0' 3.0'	19' 20' 20' 21' 22' 24'	16'+ 17'- 17'+ 18'+ 19'+ 20'
32'	10' 12' 15' 18' 20' 25'	5.5' 5.0' 4.5' 4.0' 2.5'	21' 22' 23' 24' 27'	16'+ 17'- 18'- 19'- 19'+ 20'
36'	10' 12' 15' 18' 20' 25'	5.0' 5.0' 4.5' 4.0' 1.5'	26' 26' 27' 28' 33'	17'- 17'+ 18'+ 19'+ 20'- 20'
40'	10' 12' 15' 18' 20' 25'	5.0' 4.5' 4.0' 3.5' 1.0'	30' 31' 32' 33' 34' 38'	17'+ 18'+ 19'- 20'- 20'+ 20'

*Rob Crittenden*

APPROVED BY: ROB CRITTENDEN  
TRAFFIC OPERATIONS SAFETY AND ENGINEERING MANAGER

REVISION DATE: JULY 01, 2014

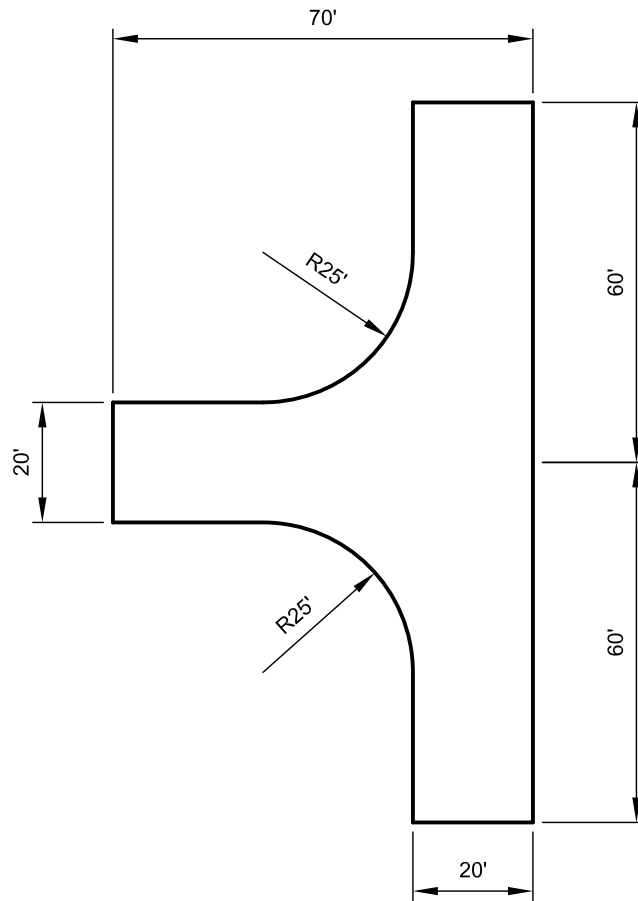


STANDARD DETAILS

## TRAFFIC CIRCLE DIMENSIONS

FILE NAME: DG05.DWG

DETAIL NUMBER: **DG05**



*Todd Short*

APPROVED BY: TODD SHORT  
ASSISTANT FIRE MARSHAL

REVISION DATE: JULY 01, 2014

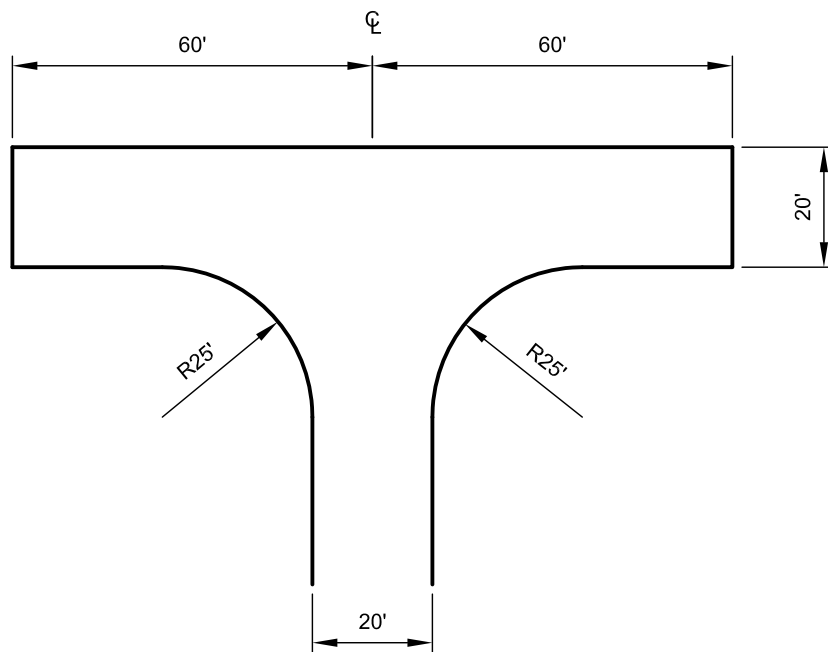


STANDARD DETAILS

**120' HAMMERHEAD  
ALTERNATE**

FILE NAME: DG06.DWG

DETAIL NUMBER: **DG06**



*Todd Short*

APPROVED BY: TODD SHORT  
ASSISTANT FIRE MARSHAL

REVISION DATE: JULY 01, 2014



City of Redmond  
WASHINGTON

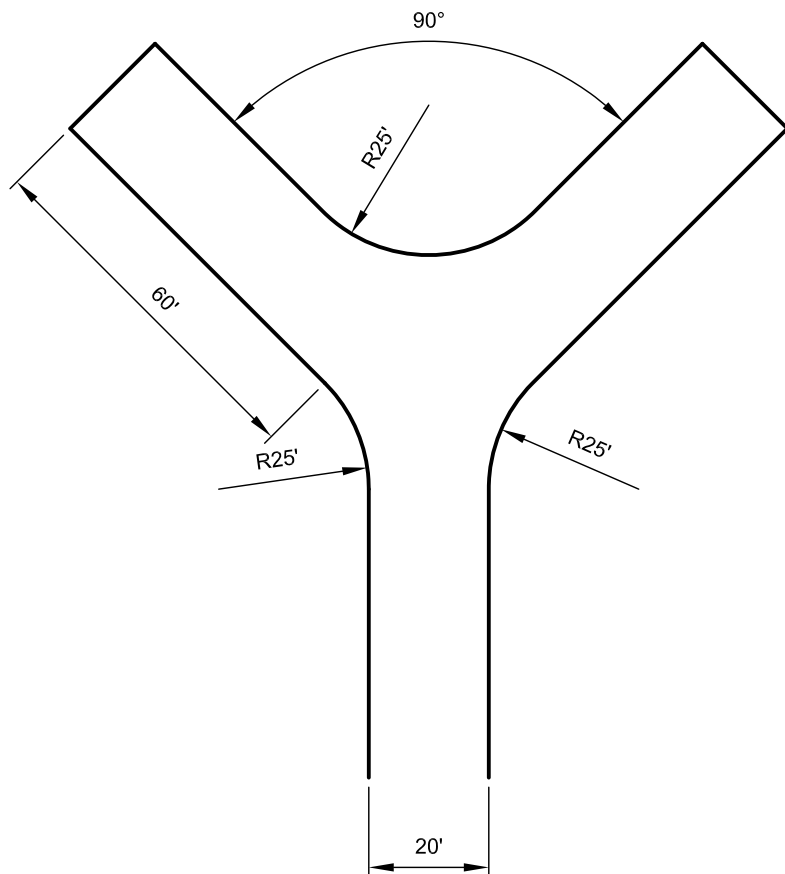
STANDARD DETAILS

**120' HAMMERHEAD**

FILE NAME: DG07.DWG

DETAIL NUMBER: **DG07**





*Todd Short*

APPROVED BY: TODD SHORT  
ASSISTANT FIRE MARSHAL

REVISION DATE: JULY 01, 2014



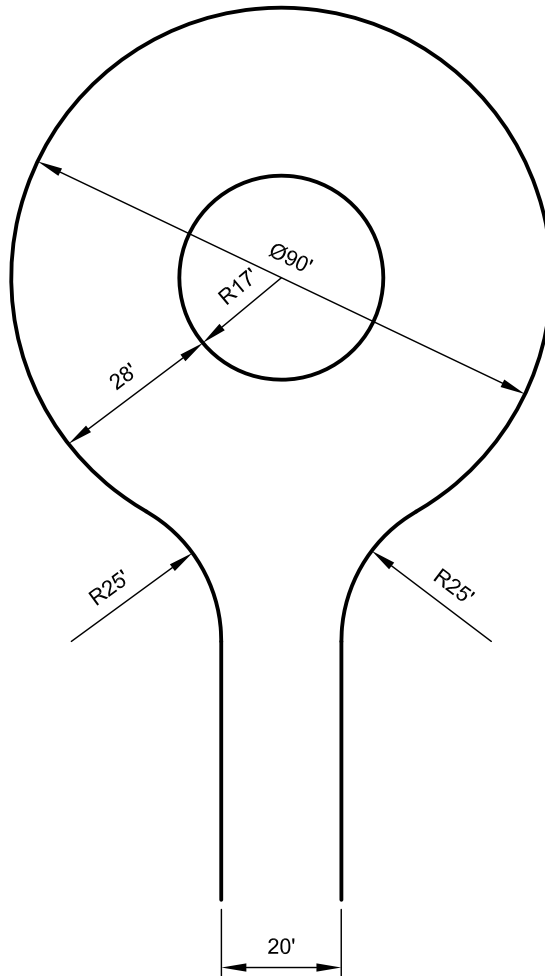
City of Redmond  
WASHINGTON

STANDARD DETAILS

**60' Y**

FILE NAME: DG08.DWG

DETAIL NUMBER: **DG08**



*Todd Short*

APPROVED BY: TODD SHORT  
ASSISTANT FIRE MARSHAL

REVISION DATE: JULY 01, 2014



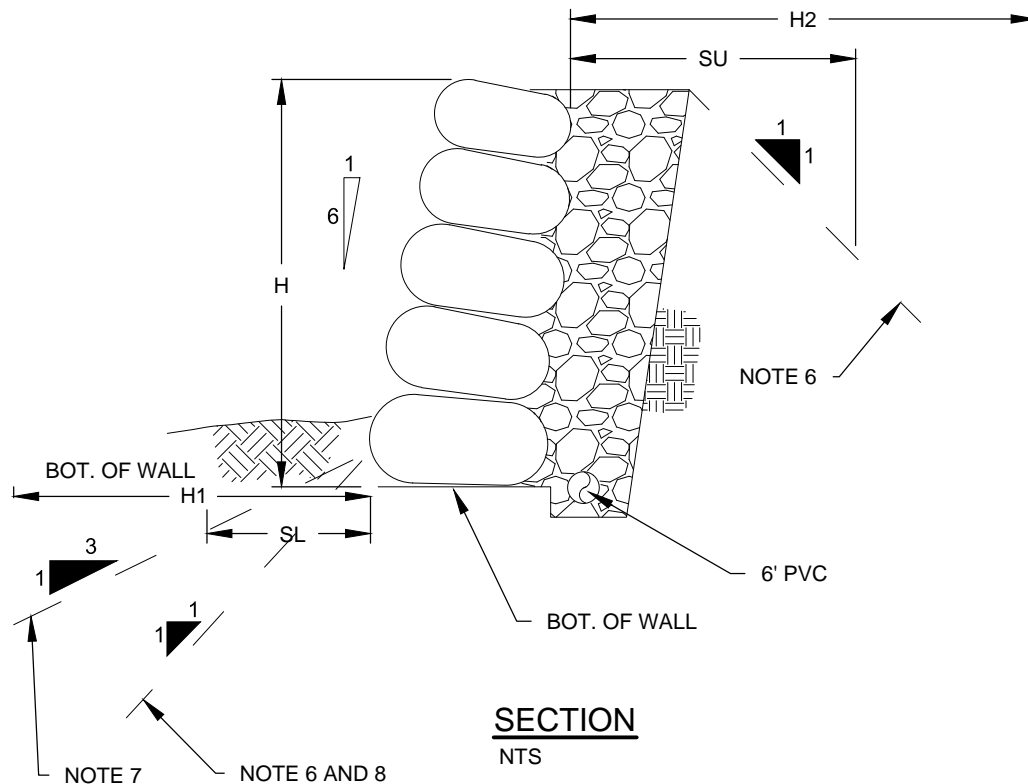
City of Redmond  
WASHINGTON

STANDARD DETAILS

**90° CUL-DE-SAC**

FILE NAME: DG09.DWG

DETAIL NUMBER: **DG09**



NOTES:

1. FREE-STANDING HEIGHT OF ROCK WALL, "H" = VARIES PER DESIGN ALL ROCKERY/RETAINING WALLS OF HEIGHT 4 FEET OR GREATER SHALL BE DESIGNED BY STRUCTURAL OR GEOTECHNICAL ENGINEER.
2. MINIMUM SETBACK DISTANCE IN WHICH NO TEMPORARY EXCAVATION OR TRENCHING MAY BE PERFORMED, "SU" = 5 FEET.
3. MINIMUM SETBACK DISTANCE IN WHICH NO TEMPORARY EXCAVATION OR TRENCHING MAY BE PERFORMED, "SL" = 2/3H.
4. MINIMUM DISTANCE IN WHICH NO PERMANENT REMOVAL OF SUBGRADE IS ALLOWED, "H1" = 10 FEET.
5. MINIMUM DISTANCE IN WHICH NO EXCAVATION OF MATERIAL OR ANY SURCHARGE IS ALLOWED, "H2" = 10 FEET.
6. PLANE BELOW WHICH NO EXCAVATION IS ALLOWED.
7. PLANE DEPICTING MAXIMUM FINISHED GRADE: 3H:1V.
8. PLANE DEPICTING ZONE OF INFLUENCE: 1H:1V. THIS REPRESENTS THE AREA OF IMPACTS FROM THE MASS OF THE RETAINING STRUCTURE ON BURIED ELEMENTS (UTILITIES, ETC).
9. UNDERDRAIN IS REQUIRED BEHIND ROCKERY/RETAINING WALL IF ADJACENT TO CITY RIGHT-OF-WAY OR HEIGHT(H) GREATER THAN 18 INCHES.

*Lisa W. Rigg*  
APPROVED BY: LISA W. RIGG  
DEVELOPMENT ENGINEERING MANAGER

REVISION DATE: MARCH 01, 2018



STANDARD DETAILS

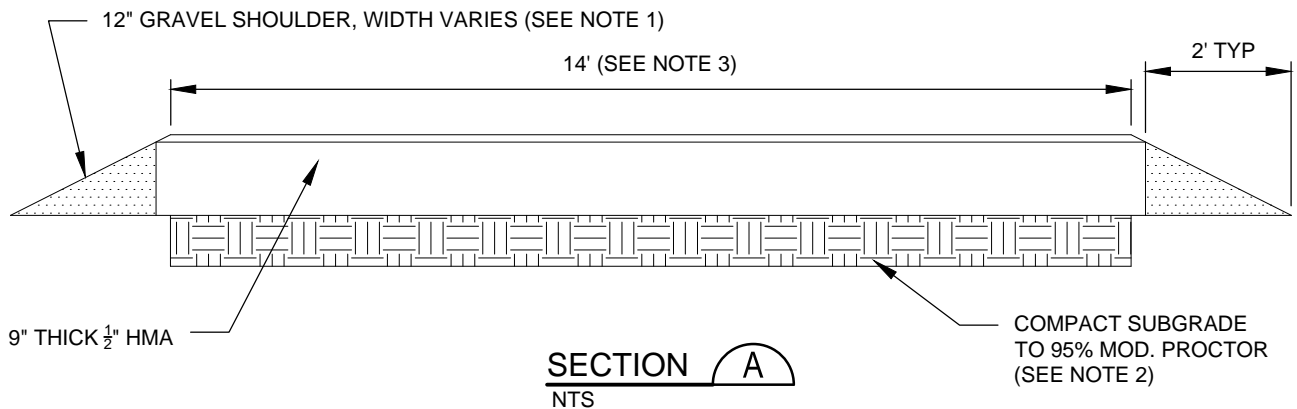
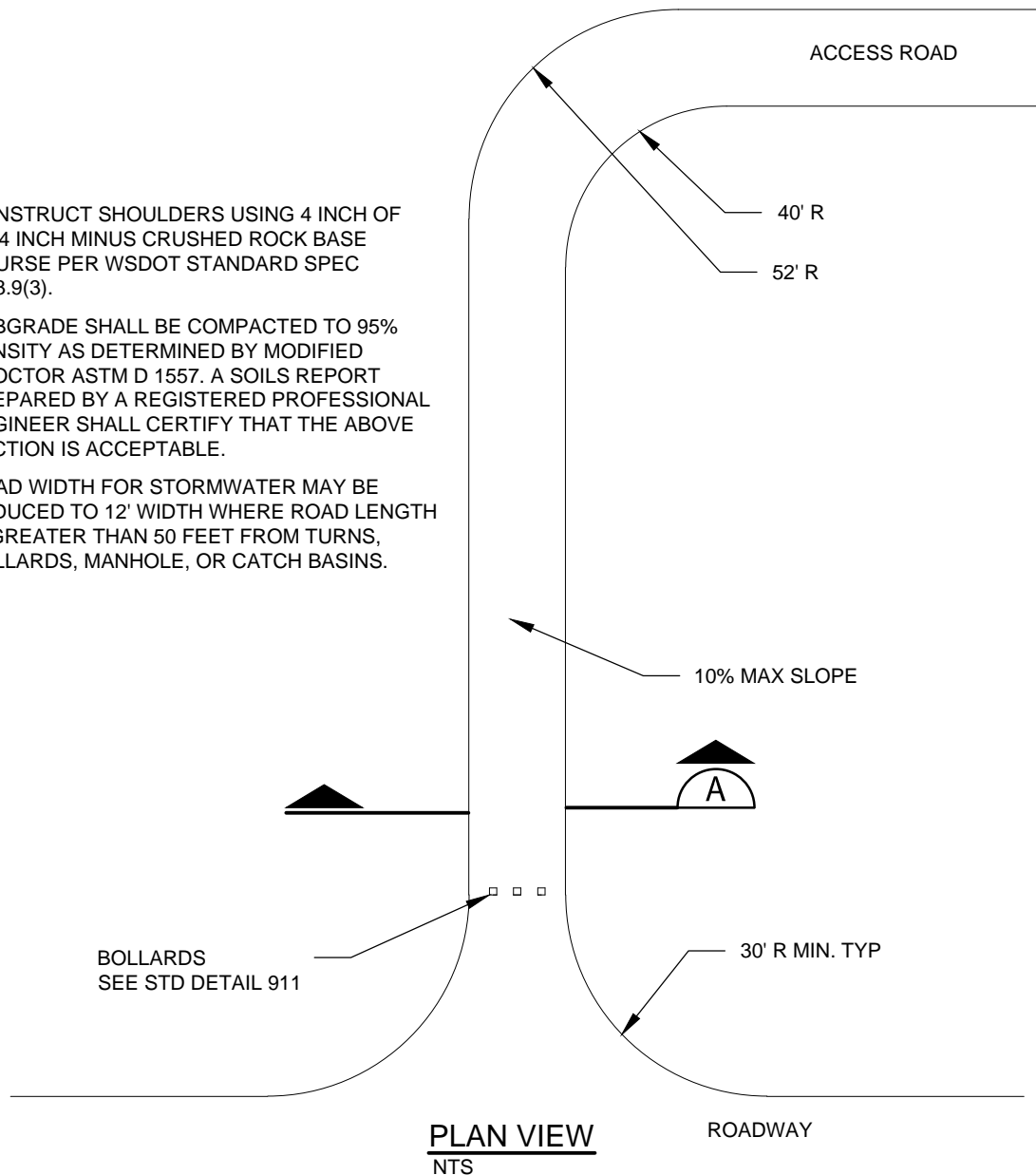
ROCKERY/RETAINING WALL  
EXCAVATION GUIDELINES

FILE NAME: DG10.DWG

DETAIL NUMBER: DG10

NOTES:

1. CONSTRUCT SHOULDERS USING 4 INCH OF 1-1/4 INCH MINUS CRUSHED ROCK BASE COURSE PER WSDOT STANDARD SPEC 9-03.9(3).
2. SUBGRADE SHALL BE COMPACTED TO 95% DENSITY AS DETERMINED BY MODIFIED PROCTOR ASTM D 1557. A SOILS REPORT PREPARED BY A REGISTERED PROFESSIONAL ENGINEER SHALL CERTIFY THAT THE ABOVE SECTION IS ACCEPTABLE.
3. ROAD WIDTH FOR STORMWATER MAY BE REDUCED TO 12' WIDTH WHERE ROAD LENGTH IS GREATER THAN 50 FEET FROM TURNS, BOLLARDS, MANHOLE, OR CATCH BASINS.



*Gary M. Schimek*

APPROVED BY: GARY M. SCHIMEK  
NATURAL RESOURCES/STORMWATER ENGINEERING MANAGER

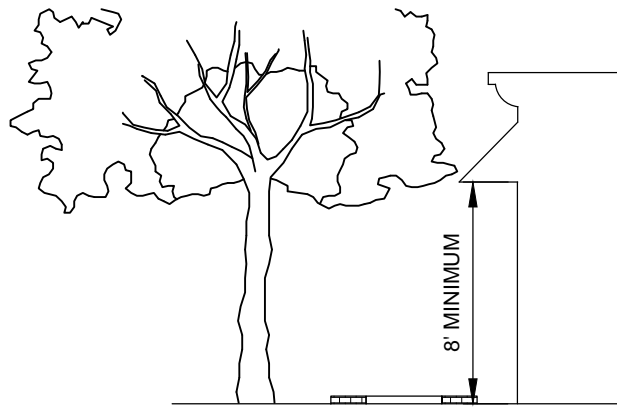
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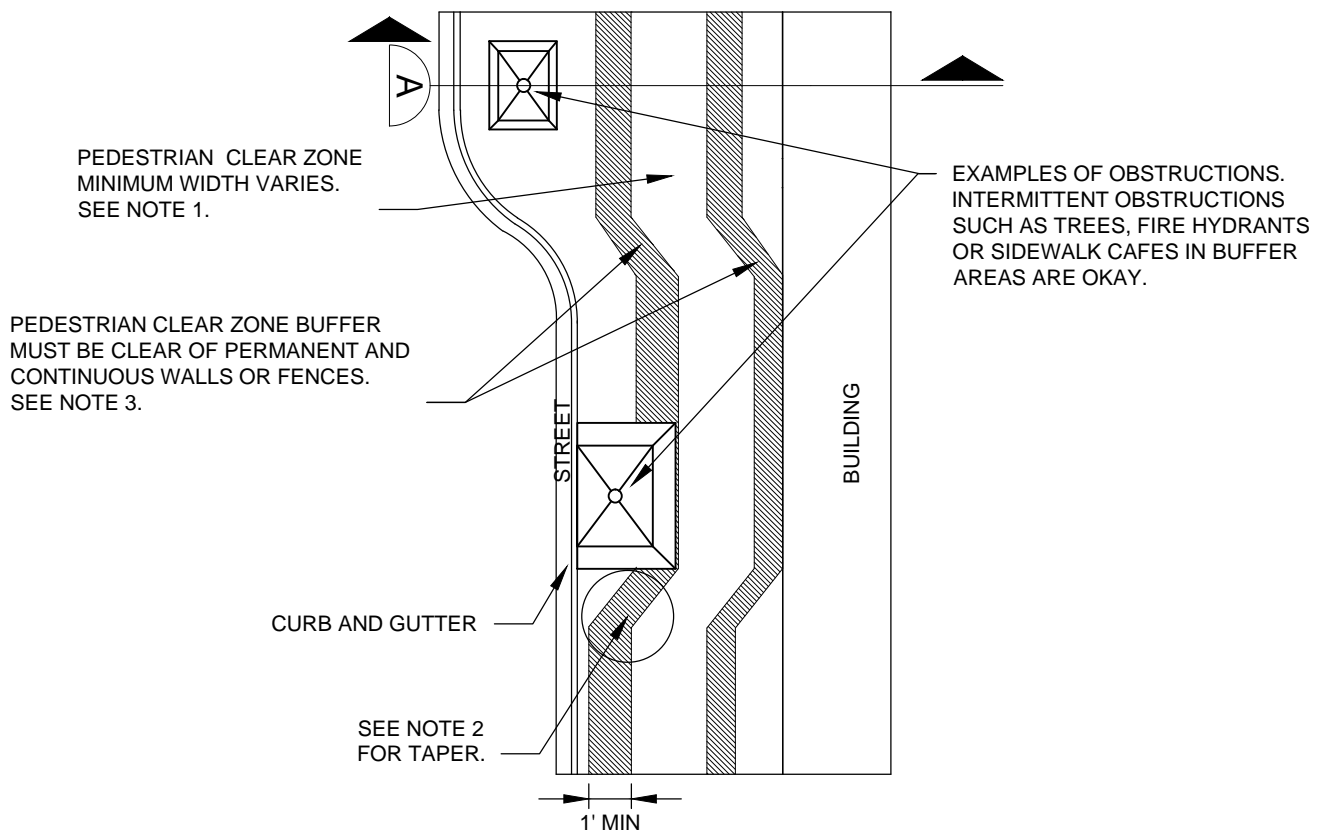
STANDARD DETAILS

STORM / SEWER  
FACILITY ACCESS ROAD

FILE NAME: SDDG11.DWG | DETAIL NUMBER: DG11



**SECTION A**  
NTS



**PLAN VIEW**  
NTS

**NOTES:**

1. PEDESTRIAN CLEAR ZONE SHALL BE 6' MINIMUM IN DOWNTOWN AND OVERLAKE URBAN CENTERS. 6' MINIMUM IN PEDESTRIAN PRIORITY ZONES. 5' MINIMUM IN THE REST OF THE CITY. SEE TRANSPORTATION MASTER PLAN APPENDIX F-DESIGN GUIDANCE FOR MAP OF PEDESTRIAN PRIORITY ZONES
2. PROVIDE MINIMUM 1.5:1 TAPER IN URBAN CENTERS AND PEDESTRIAN PRIORITY ZONES. PROVIDE MINIMUM 1:1 TAPER IN REST OF THE CITY.
3. CROSS HATCH IS SHOWN TO DELINEATE CLEAR ZONE FROM CLEAR ZONE BUFFER. SEE STANDARD DETAILS 303-304 FOR MATERIAL REQUIREMENTS.

*Donald Cairns*

APPROVED BY: DONALD CAIRNS  
TRANSPORTATION PLANNING AND ENGINEERING MANAGER

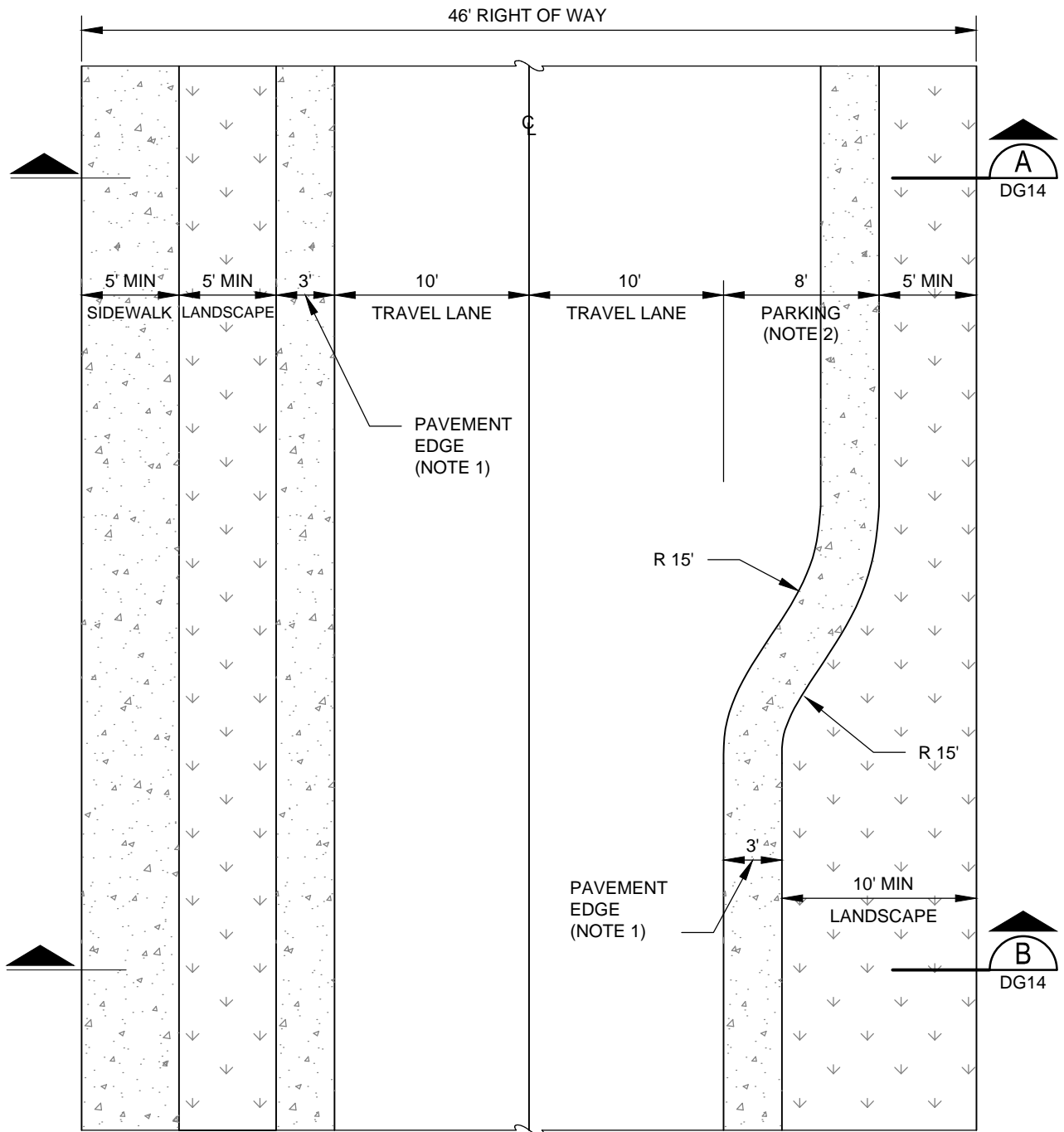
REVISION DATE: MARCH 01, 2017



STANDARD DETAILS

**PEDESTRIAN CLEAR ZONE**

FILE NAME: DG12\_2017.DWG DETAIL NUMBER: DG12



# **PLAN VIEW** NTS

## **NOTES:**

1. PAVEMENT EDGE SHALL CONSIST OF THICKENED EDGE OR RIBBON CURB CONCRETE ON EACH SIDE, SCORED OR SHINER AS APPROVED BY CITY ENGINEER.
2. PARKING SHALL BE LOCATED INTERMITTENTLY BETWEEN LANDSCAPED AREAS.
3. LIGHT POLES AND HYDRANTS SHALL BE LOCATED IN LANDSCAPE AREAS AS APPROVED BY CITY ENGINEER.
4. SEE STANDARD DETAIL DG14 FOR 46' RUSTIC STREET SECTIONS.

*Donald Cairns*

APPROVED BY: DONALD CAIRNS  
TRANSPORTATION PLANNING AND ENGINEERING MANAGER

REVISION DATE: MARCH 01, 2018

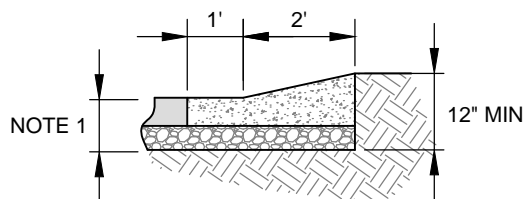
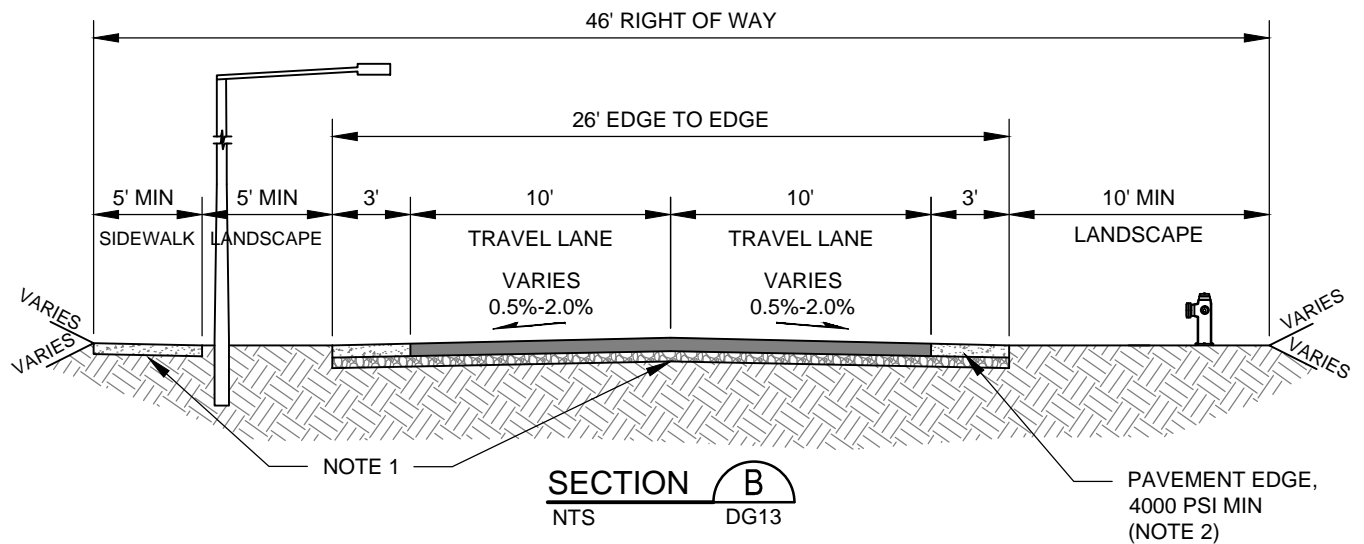
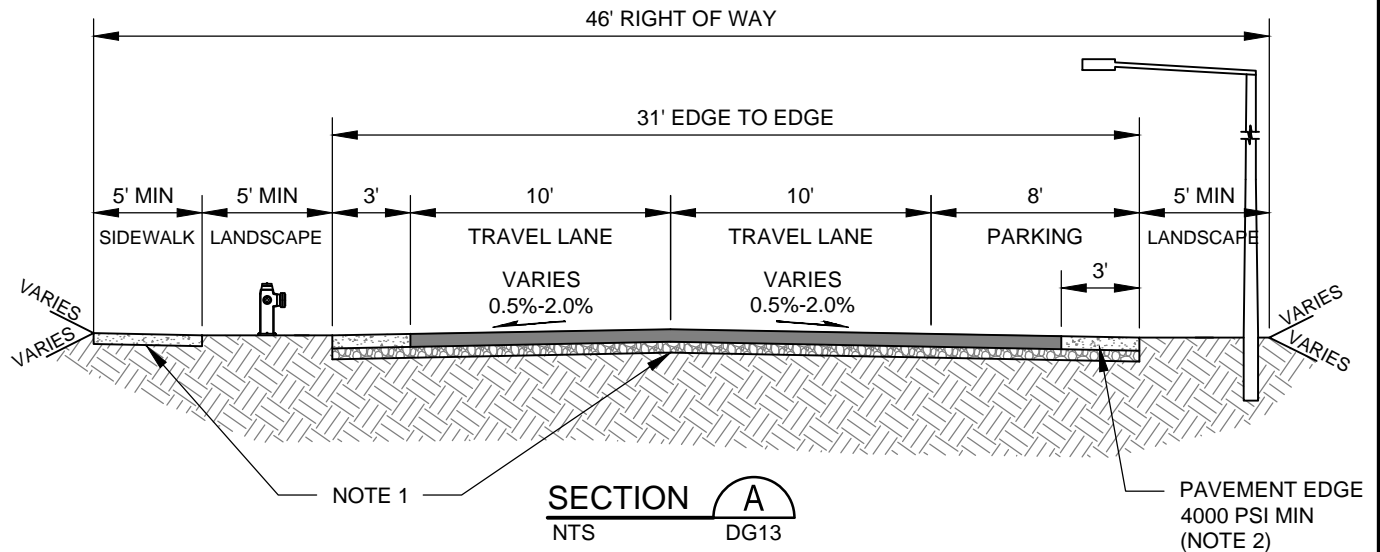


STANDARD DETAILS

46' RUSTIC STREET PLAN

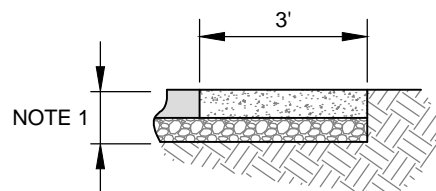
FILE NAME: DG13.DWG

DETAIL NUMBER: DG13



**THICKENED EDGE DETAIL**

NTS



**RIBBON CURB DETAIL**

NTS

**NOTES:**

1. SEE STANDARD DETAIL 301 FOR SIDEWALK, PAVEMENT, BASE COURSE AND SUBGRADE REQUIREMENTS.
2. PAVEMENT EDGE SHALL CONSIST OF THICKENED EDGE OR RIBBON CURB CONCRETE (SEE DETAILS ABOVE) ON EACH SIDE, SCORED OR SHINER AS APPROVED BY CITY ENGINEER.
3. LIGHT POLES AND HYDRANTS SHALL BE LOCATED IN LANDSCAPE AREAS AS APPROVED BY CITY ENGINEER.

*Donald Cairns*

APPROVED BY: DONALD CAIRNS  
TRANSPORTATION PLANNING AND ENGINEERING MANAGER

REVISION DATE: MARCH 01, 2018

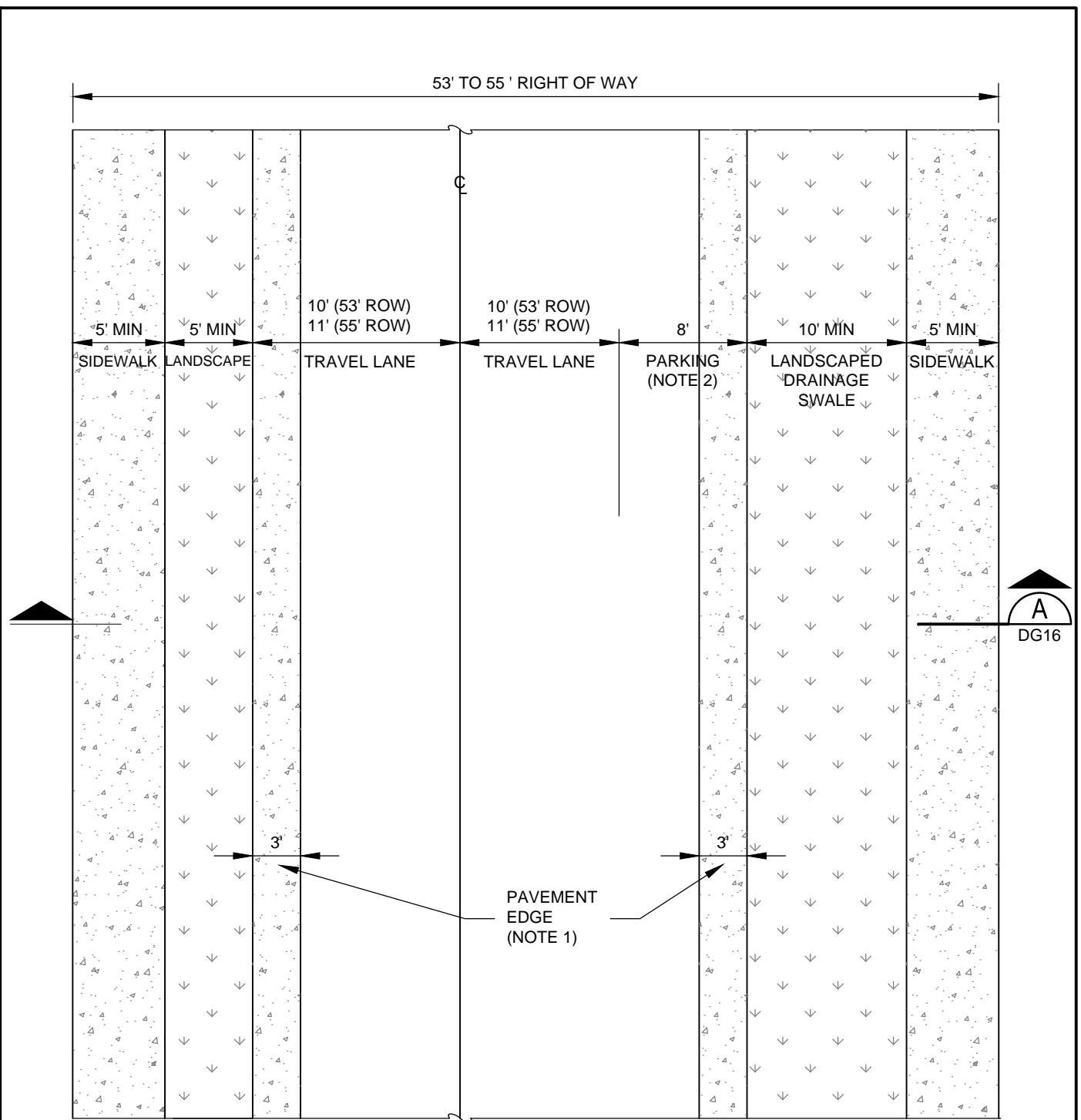


STANDARD DETAILS

46' RUSTIC STREET SECTIONS

FILE NAME: DG14.DWG

DETAIL NUMBER: DG14



## PLAN VIEW

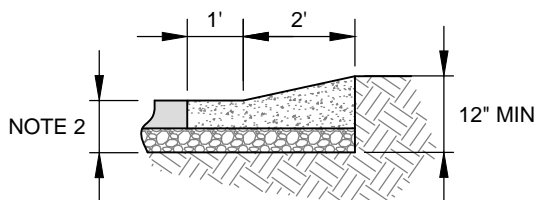
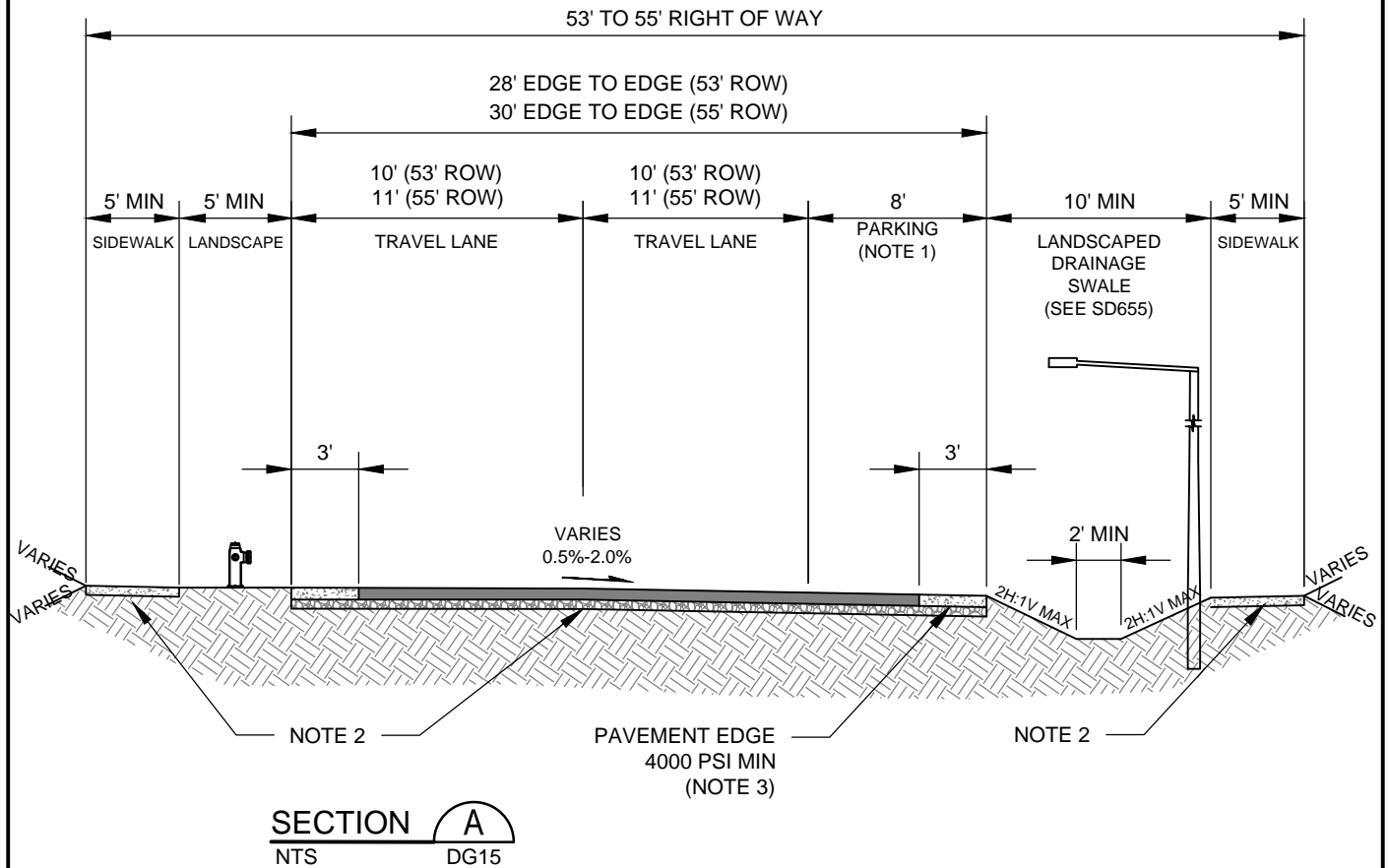
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### NOTES:

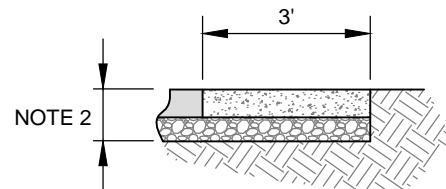
1. PAVEMENT EDGE SHALL CONSIST OF THICKENED EDGE OR RIBBON CURB CONCRETE ON EACH SIDE, SCORED OR SHINER AS APPROVED BY CITY ENGINEER.
2. SEE RZC APPENDIX 2, TABLE 3 FOR PARKING OPTIONS.
3. LIGHT POLES AND HYDRANTS SHALL BE LOCATED IN LANDSCAPE AREAS AS APPROVED BY CITY ENGINEER.
4. SEE STANDARD DETAIL DG16 FOR 53' TO 55' RUSTIC STREET SECTIONS.

 APPROVED BY: DONALD CAIRNS TRANSPORTATION PLANNING AND ENGINEERING MANAGER REVISION DATE: MARCH 01, 2018	 City of Redmond WASHINGTON	STANDARD DETAILS	
		53' TO 55' RUSTIC STREET PLAN FILE NAME: DG15.DWG    DETAIL NUMBER: DG15	





**THICKENED EDGE DETAIL**  
NTS



**RIBBON CURB DETAIL**  
NTS

**NOTES:**

1. SEE RZC APPENDIX 2, TABLE 3 FOR PARKING OPTIONS.
2. SEE STANDARD DETAIL 301 FOR SIDEWALK, PAVEMENT, BASE COURSE AND SUBGRADE REQUIREMENTS.
3. PAVEMENT EDGE SHALL CONSIST OF THICKENED EDGE OR RIBBON CURB CONCRETE (SEE DETAILS ABOVE) ON EACH SIDE, SCORED OR SHINER AS APPROVED BY CITY ENGINEER.
4. LIGHT POLES AND HYDRANTS SHALL BE LOCATED IN LANDSCAPE AREAS AS APPROVED BY CITY ENGINEER.

*Donald Cairns*

APPROVED BY: DONALD CAIRNS  
TRANSPORTATION PLANNING AND ENGINEERING MANAGER

REVISION DATE: MARCH 01, 2018

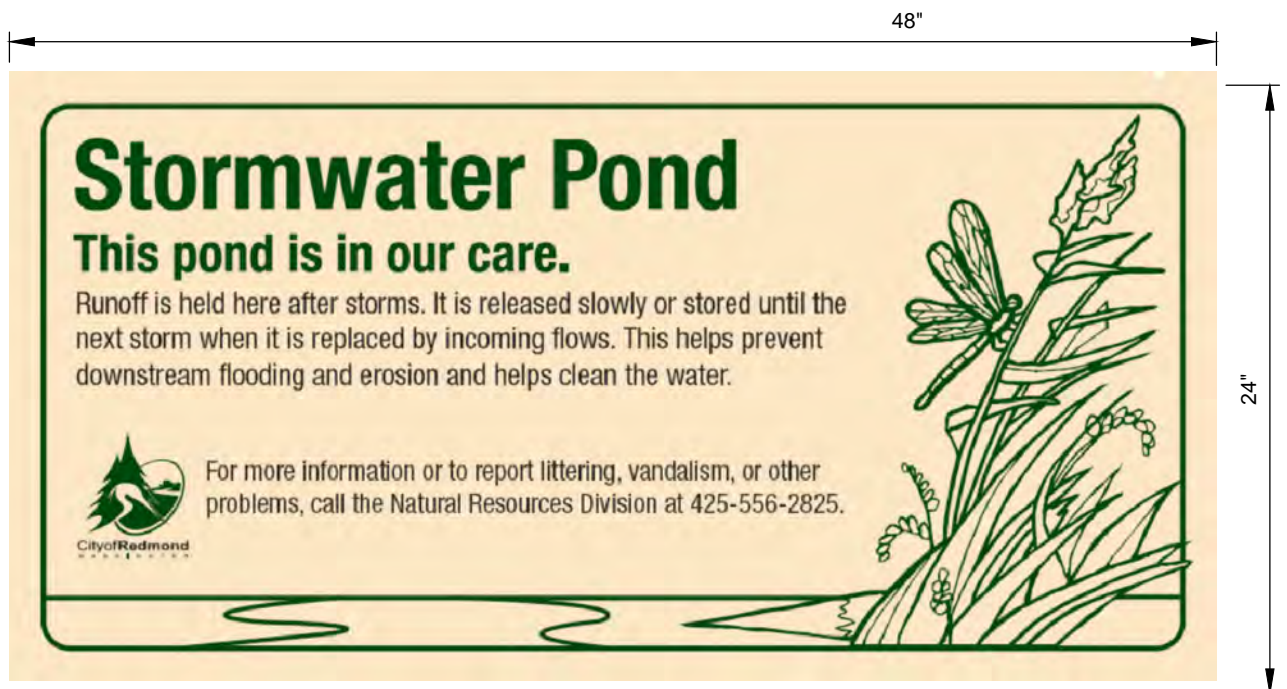
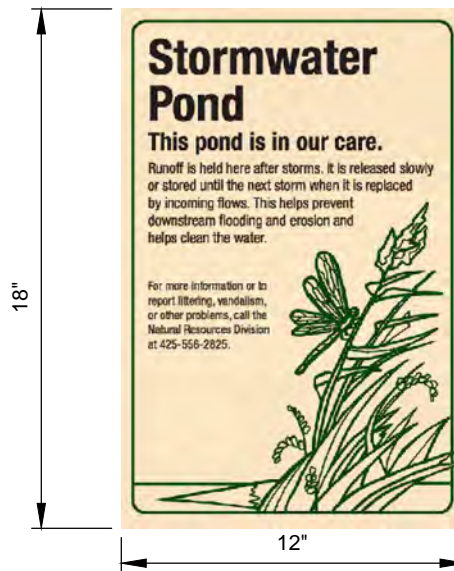


STANDARD DETAILS

53' TO 55' RUSTIC STREET  
SECTIONS

FILE NAME: DG16.DWG

DETAIL NUMBER: DG16



NOTES:

1. THE SIGN COLORS ARE PMS 350 (DARK GREEN) FOR THE LETTERING AND PMS 726 (LIGHT TAN) FOR THE BACKGROUND.
2. THE FONT USED IS HELVETICA NEUE CONDENSED (BOLD AND REGULAR).
3. MATERIAL: 0.125-GAUGE ALUMINUM
4. FACE: 3 COATS OUTDOOR ENAMEL (SPRAYED)
5. LETTERING: SILK SCREEN ENAMEL
6. INSTALLATION: MOUNT ON FENCE, OR WITH PRESSURE TREATED POSTS WITH BEVELED TOPS, 1-1/2 INCH HIGHER THAN SIGN. IF POSTS ARE USED, SET IN 3 INCH DEEP BY 8 INCH DIAMETER, CONCRETE FILLED POST HOLES. TOP OF SIGN SHOULD BE 3'-6" ABOVE GROUND. FOR LARGE SIGN, USE TWO POSTS. FOR SMALL SIGN, USE ONE.
7. PLACEMENT: FACE SIGN IN DIRECTION OF PRIMARY VISUAL OR PHYSICAL ACCESS. DO NOT BLOCK ACCESS ROAD. DO NOT PLACE WITHIN SIX FEET OF STRUCTURES. LOCATION IS SUBJECT TO APPROVAL BY THE STORMWATER ENGINEER.
8. AN ELECTRONIC FILE OF THE SIGN IS AVAILABLE FROM THE STORMWATER ENGINEER, AND THE STORMWATER ENGINEER WILL DETERMINE WHAT SIZE SIGN IS APPROPRIATE. FOR TREATMENT WETLANDS REPLACE TEXT "STORMWATER POND" WITH "STORMWATER TREATMENT"

*Gary M. Schimek*

APPROVED BY: GARY M. SCHIMEK  
NATURAL RESOURCES/STORMWATER ENGINEERING MANAGER

REVISION DATE: MARCH 01, 2018

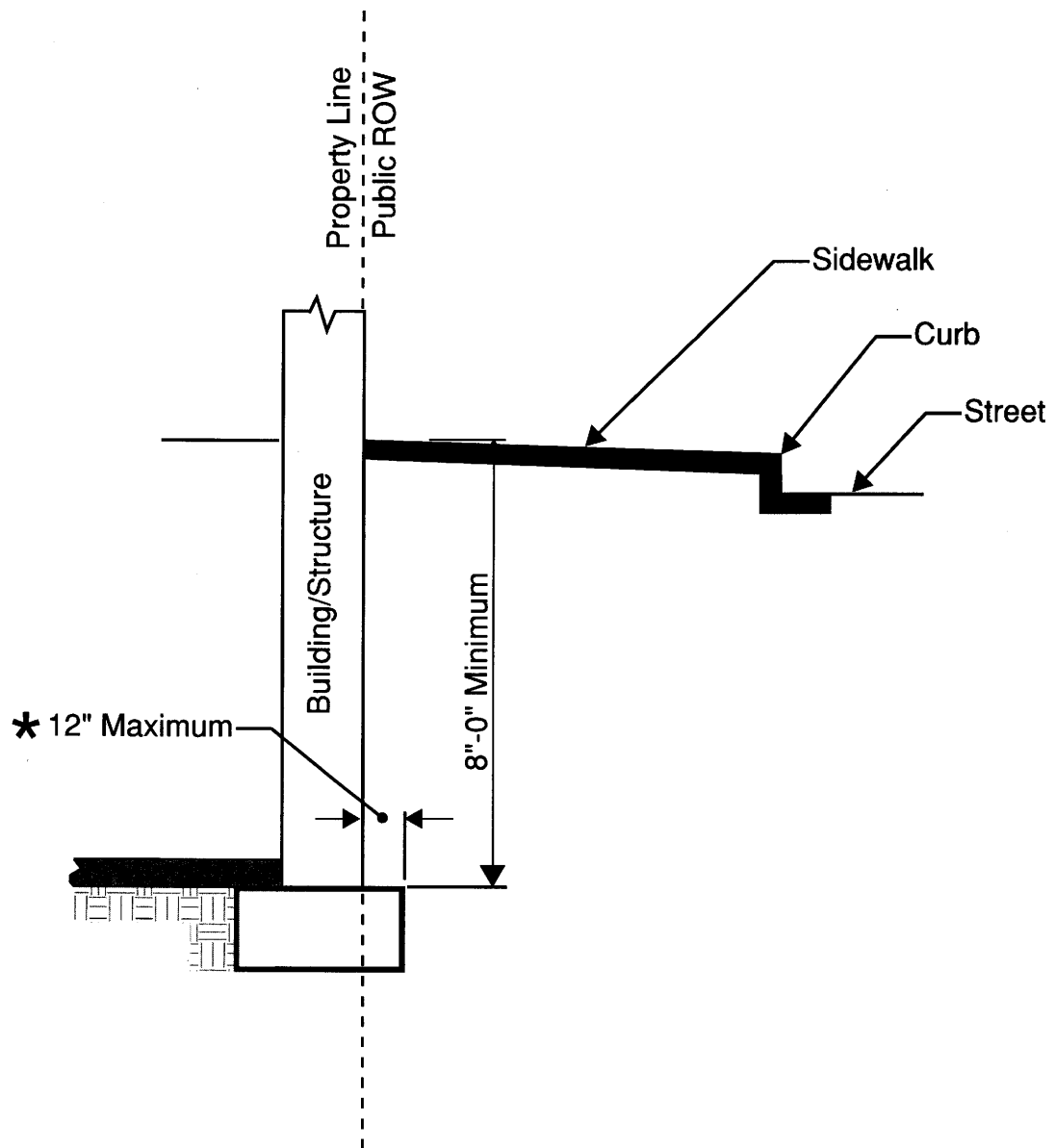


STANDARD DETAILS

STORMWATER POND/TREATMENT  
SIGN

FILE NAME: DG17.DWG

DETAIL NUMBER: DG 17



\* There shall be no below grade encroachments into the Right-of-Way unless the City of Redmond Zoning Code allows structures to be built up to the Right-of-Way line on a designated property, then the building foundation may encroach a maximum of 12-inches into the Right-of-Way at a minimum of 8-feet below grade.

Not to Scale

*Jon Spangler*  
 APPROVED BY: Jon Spangler  
 REVISION DATE: 6/18/2018

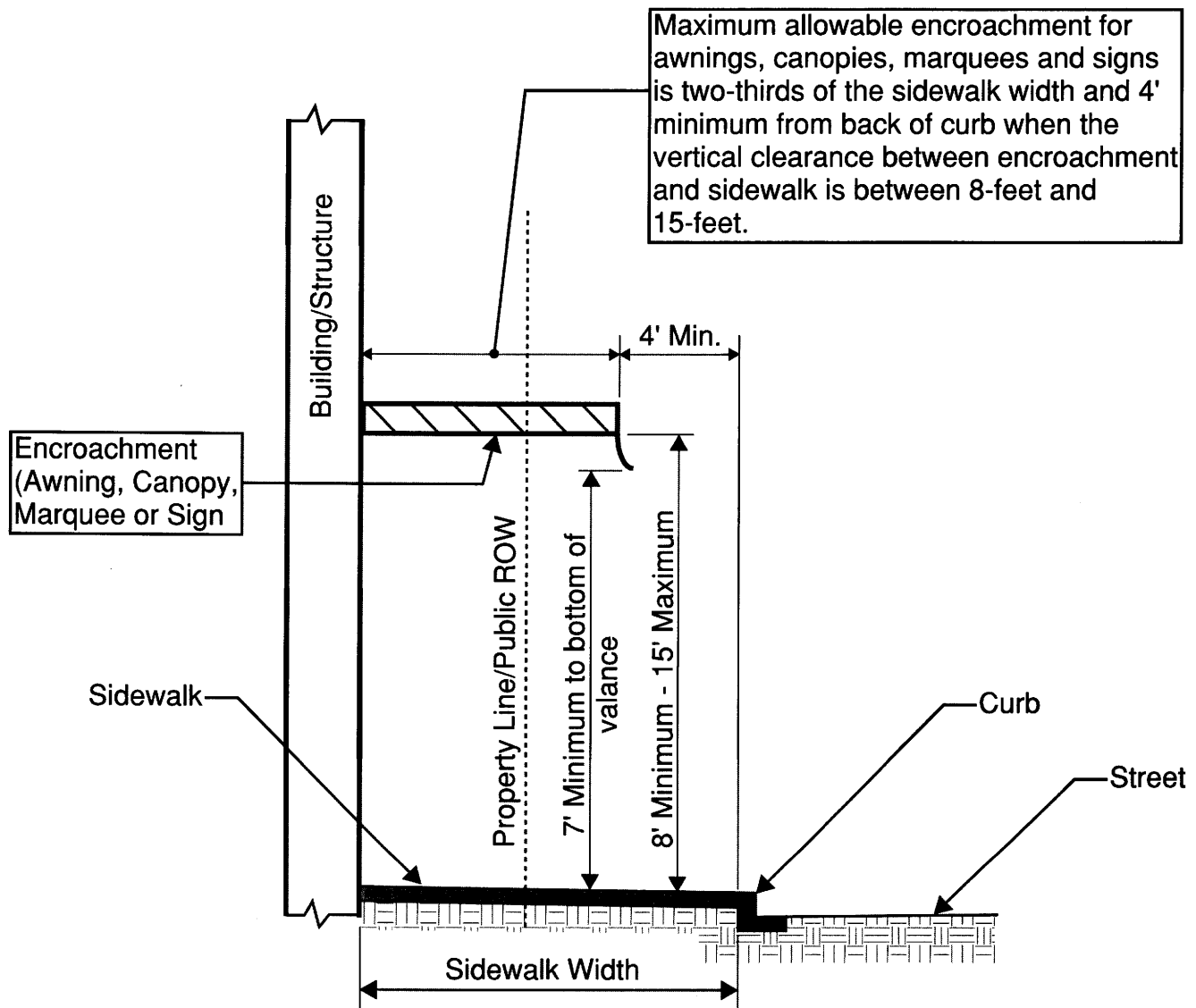


STANDARD DETAILS

Encroachment Detail  
 Below Grade (ROW)

FILE NAME:

DETAIL NUMBER: DG 18



#### NOTES:

1. Awnings, canopies, marquees and signs may extend into the public right-of-way but shall be a minimum 4' from back of curb.
2. At a minimum that portion of the Awning, canopy, marquee or sign that extends into the right-of-way must be removable.
3. The property owner is responsible for removal at their expense at the city request.
4. The property owner is responsible for all maintenance related to awnings, canopies, marquees and signs.
5. Buildings, balconies, steps, windows, architectural features and mechanical equipment are NOT allowed in the Right-of-Way (ROW).

Not to Scale

*Jon Spangler*  
APPROVED BY: Jon Spangler  
REVISION DATE: 6/13/2018



City of Redmond

#### STANDARD DETAILS

**Encroachment Detail**  
Awnings, Canopies, Marquees and Signs  
8-feet to 15-feet (ROW)

FILE NAME:

DETAIL NUMBER: DG 19

Building/Structure

Roof Overhang  
> 45 feet - 2/3 Sidewalk  
Width. (May overhang  
into Right-of-Way)

Street Tree  
(Typical)

Property Line

Public Right-of-Way

width varies  
Sidewalk

Curb

There shall be no  
encroachment into the public  
Right-of-Way between 15-feet  
and 45-feet above grade at  
Right-of-Way.

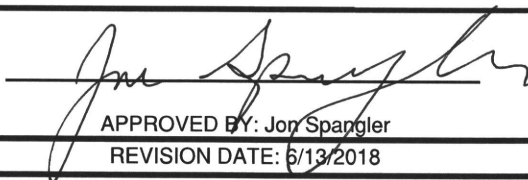
2/3 sidewalk width

4' Minimum  
to back of curb

See Detail "2"  
for height  
requirements

Awning, Canopy,  
Marquee or Sign  
May overhang into  
Right-of-Way

Not to Scale

  
APPROVED BY: Jon Spangler  
REVISION DATE: 6/13/2018



STANDARD DETAILS

Encroachment Detail  
Plan View

FILE NAME:

DETAIL NUMBER: DG 20